

5040

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/520,738

Source: PCT

Date Processed by STIC: 1-18-05

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PCT

RAW SEQUENCE LISTING

DATE: 01/18/2005

PATENT APPLICATION: US/10/520,738

TIME: 14:59:44

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3 <110> APPLICANT: THE DEPARTMENT OF AGRICULTURE, WESTERN AUSTRALIA
5 <120> TITLE OF INVENTION: WHEAT PLANTS HAVING INCREASED RESISTANCE TO
6   IMIDAZOLINONE HERBICIDES
8 <130> FILE REFERENCE: 16313-0234
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/520,738
C--> 11 <141> CURRENT FILING DATE: 2005-01-10
13 <150> PRIOR APPLICATION NUMBER: 60/394,991
14 <151> PRIOR FILING DATE: 2002-07-10
16 <160> NUMBER OF SEQ ID NOS: 9
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 509
22 <212> TYPE: DNA
23 <213> ORGANISM: Triticum aestivum
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27 caatgggatt tgggttacca gctgcagctg gcgctgctgt ggccaacca ggtgttacag 120
28 ttgttgacat tgatggtgat ggtagtttcc tcatgaacat tcaggagttg gcgttgatcc 180
29 gcattgagaa cctcccagtg aaggtgatga tattgaacaa ccagcatctg ggaatggtgg 240
30 tgcagtgagg ggataggttt tacaaggcca atcgggcgca cacatacctt ggcaaccag 300
31 aaaatgagag tgagatatat ccagattttg tgacgattgc taaaggattc aacgttccag 360
32 cagttcgagt gacgaagaag agcgaagtca ctgcagcaat caagaagatg cttgagacc 420
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38 <211> LENGTH: 169
39 <212> TYPE: PRT
40 <213> ORGANISM: Triticum aestivum
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43 Ala Gln Tyr Tyr Thr Tyr Lys Arg Pro Arg Gln Trp Leu Ser Ser Ser
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46 Gly Leu Gly Ala Met Gly Phe Gly Leu Pro Ala Ala Ala Gly Ala Ala
47           20           25           30
49 Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Gly Asp Gly Ser
50           35           40           45
52 Phe Leu Met Asn Ile Gln Glu Leu Ala Leu Ile Arg Ile Glu Asn Leu
53           50           55           60
55 Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val Val
56 65           70           75           80
58 Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr Leu
59           85           90           95
61 Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr Ile
62           100          105          110

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64 Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser Glu
65      115      120      125
67 Val Thr Ala Ala Ile Lys Lys Met Leu Glu Thr Pro Gly Pro Tyr Leu
68      130      135      140
70 Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile Pro
71 145      150      155      160
73 Asn Gly Gly Ala Phe Lys Asp Met Ile
74      165
77 <210> SEQ ID NO: 3
78 <211> LENGTH: 575
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85 gttgttgaca ttgatggaga tggtagtttc ctcatgaaca ttcaggagtt ggcattgata 180
86 cgtattgaga acctccctgt gaaggtgatg atattgaaca accagcatct gggaatgggtg 240
87 gtgcaatggg aggataggtt ttacaaggcc aatcggggcg acacatacct tggcaaccca 300
88 gaaaatgaga gtgagatata tccagatttt gtgacgattg ctaaaggatt caacgttccg 360
89 gcagttcgtg tgacgaagaa gagcgaagtc actgcagcaa tcaagaagat gcttgagacc 420
90 ccagggccat acttggttga tatcatcgtc ccgcatcagg agcacgtgct gcctatgatc 480
91 ccaaacggtg gtgctttcaa ggacatgatc atggagggtg atggcaggac ctcgtactga 540
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97 <212> TYPE: PRT
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105      20      25      30
107 Ala Val Ala Asn Pro Gly Val Thr Val Val Asp Ile Asp Gly Asp Gly
108      35      40      45
110 Ser Phe Leu Met Asn Ile Gln Glu Leu Ala Leu Ile Arg Ile Glu Asn
111      50      55      60
113 Leu Pro Val Lys Val Met Ile Leu Asn Asn Gln His Leu Gly Met Val
114 65      70      75      80
116 Val Gln Trp Glu Asp Arg Phe Tyr Lys Ala Asn Arg Ala His Thr Tyr
117      85      90      95
119 Leu Gly Asn Pro Glu Asn Glu Ser Glu Ile Tyr Pro Asp Phe Val Thr
120      100      105      110
122 Ile Ala Lys Gly Phe Asn Val Pro Ala Val Arg Val Thr Lys Lys Ser
123      115      120      125
125 Glu Val Thr Ala Ala Ile Lys Lys Met Leu Glu Thr Pro Gly Pro Tyr
126      130      135      140
128 Leu Leu Asp Ile Ile Val Pro His Gln Glu His Val Leu Pro Met Ile
129 145      150      155      160
131 Pro Asn Gly Gly Ala Phe Lys Asp Met Ile

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140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
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151 <212> TYPE: PRT
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
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164 <211> LENGTH: 19
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
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179 <210> SEQ ID NO: 8
180 <211> LENGTH: 6
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
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195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative
200     conserved peptide sequence

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202 <400> SEQUENCE: 9

203 Ile Pro Ser Gly Gly

204 1 5

VERIFICATION SUMMARY

DATE: 01/18/2005

PATENT APPLICATION: US/10/520,738

TIME: 14:59:45

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- * L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
- * L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date